This reference manual was prepared for use with punched card deck 115, produced from observations

Mention should be made of the fact that fixed weather ship observations from 1940 to 1945 are punched in this deck. Attempts have been made and are still being made to distinguish these observations from transient vessels.

Weather elements for all fields were nunched when available. Planks were used to indicate missing elements. Ship numbers if used, can be misleading as they usually represent the serial number of the barometer issued to a specific ship. The misrepresentation is introduced when the barometer was calibrated and re-issued, but not necessarily to the ship that originally used the instrument.

A salmon or green card, IBM electrotype #728519, was used for this deck.

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			CARD	CONTENT		SOURCE CONTENT
Col - umns	item	Code	Code Definition	Remarks	Units or Symbols	Reporting and Coding Practices
1-2 3-4	Month	01-12 01-31	January - December Day of Month			
5 <b>-</b> 6		38-48	1938 - 1949			
	Day of the	1	Sunday		Y	
	Week	2	Monday			
	i	3	Tuesday			<u> </u>
		4	Tednesday			1
		<del></del>	Thursday	<del>                                     </del>		
		6	Friday Saturday	<del></del>		1
3	Octant	<del>- 6 -</del>	0° to 90°77	Northern Hemisphere	Q	
י	Occanc	<del>l −                                   </del>	90° to 180°W	- Not whold its included	`	1
		2	180° to 90°E	┪ . !		
		3	90° to 0°B	1		1
		5	0° to 90°W	Southern Hemisphere		i .
		6	90° to 150°7			i .
		7	180° to 90°E	<u> </u>		
		8	90° to 0°E		LLL	
9-11	Latitude		0.0° to 90.0°N	Column 3 punched 0-3.	ىلىئىل	1
30.37	T 142 -	000-900	0.0° to 90.0°S	Column 8 punched 5-8. Column 8 punched 0, 1, 5, 6. Hundreds digit omitted	111	
12-14			100.0° to 180.0°W	Column 8 punched 1 or 6 in reporting and punch-		
			0.0° to 99.9°E	Column 8 punched 2, 3, 7, 8. ing values from 100°		
			100.0° to 190.0°E	Column 8 punched 2 or 7. to 180°.		
15-16			0000-2300 GMT		GG	Usually recorded every 3 or 6 hours.
17-18		00 .	Colm		DD	
	Direction	02	North Northeast			
		04	Northeast	·		
		- 06	East Northeast			[* .
		08	East			
		10	East Southeast	· · · · · · · · · · · · · · · · · · ·		
	-	12	Southeast South Southeast		•	
		16	South			·
		18	South Southwest			
		20	Southwest			· ·
		22	West Southwest			
•		24	West			·
		26	West Northwest			
		28	Northwest			<u> </u>
		_ 30	North Northwest	<del></del>		<u>'</u>
		32 Blank	North Unknown		•	
19	Beaufort	DTBUK	Calm	Wind speed < 1 knot.	F	
17	Wind Force	<del>Ŭ</del>	Light airs	Wind speed 1-3 knots.	-	
			Light breeze	Wind speed 4-6 knots.		
		3	Gentle breeze	Wind speed 7-10 knots.		
		4	Moderate breeze	Wind speed 11-16 knots.		
		5	Fresh breeze	Wind speed 17-21 knots.		
			Strong breeze	Wind speed 22-27 knots.		
			High wind	Wind speed 28-33 knots.		
		8	Fresh gale	Wind speed 34-40 knots. Wind speed 41-47 knots.		
		9	Strong gale	Punched as X over 0, 48-55 knots.		
		10	Whole gale Storm	Punched as X over 1, 56-63 knots.		

			CARD	CONTENT		SOURCE CONTENT
Col - umns	item	Code	Gode Definition	Remarks	Units or Symbols	Reporting and Coding Practices
19	Beaufort Wind Force (Continued)	12 Blank	Hurricane Unknown	Punched as X over 2, ≥ 64 knots.	F	
20-21	Present Weather	00-19 00 01 02 03 04	Abbreviated description of sky and special phenomena Cloudless Partly cloudy Cloudy Overcast Low fog	Whether on ground or over sea.	WW.	
		05 06 07 08 09 10	Haze Dust devils seen Distant lightning Light fog Fog at a distance Precipitation within sight Thunder	Visibility ≥ 1100 yerds.  Visibility between 1100 yards and 2200 yards.  But not at ship.  Without precipitation at ship.		
		12 13 14 15 16 17	Duststorm within sight Ugly, threatening weather Squally weather Heavy squalls Waterspouts seen Visibility reduced by	But not at ship.  In last three hours.  Smoke caused by industrial, grass, or forest fires.		
		18 19 20-29	smoke or volcanic ashes Duststorm Signs of tropical storm (hurricane) Precipitation in last	Visibility > 1100 yards.		
		20	hour but not at time of observation Precipitation (rain, drizzle, hail, snow or sleet)	In the last hour but not at time of observation.		
		22 23	21 Drizzle (other than showers)  22 Rain (other than showers)			,
		24 25 26 27	Rain and snow mixed (other than showers) Rain shower(s) Snow shower(s) Hail or rain and hail			·
			shower(s) Slight thunderstorm Heavy thunderstorm Duststorms and storms of drifting snow Dust or sand storm	Visibility < 1100 yards.		
		30 31	Dust or sand storm has decreased		ļ	

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	•		CARD (	CONTENT		SOURCE CONTENT
Col – umns	item	Code	Code Definition	Remarks	Units or Symbols	Reporting and Coding Practices
20-21	Present Weather (Continued)	32 33	Dust or sandstorm no appreciable change Dust or sandstorm has	·	WW	·
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	34	increased Line of duststorms			
		36	ing snow Heavy storm of drifting	Generally low.		
	`	38	ing snow	Generally high.		
				Visibility < 1100 yards.		·
	. 	41 42	Fog Moderate fog Thick fog	In last hour but not at the time of observation.		
		44	Fog, sky not discernable Fog, sky discernable	Has become thinner during the last hour.  No appreciable change during the last hour.		
		47 48	Fog, sky not discernable	Has begun or become thicker during the last hour.		
•	· [	50-59 50	Drizzle	Precipitation consisting of numerous minute drops.		
•		52 53	Slight drizzle  Voderate drizzle	Intermittent Continuous Intermittent		i
		54 55 · 56	Thick drizzle	Continuous Intermittent Continuous		
		58 59		Slight or moderate. Thick		,
		60 61	Rain Rain Slight rain	Intermittent		·
		62 63 64	Moderate rain	Continuous Intermittent Continuous		
		65 66 67	Heavy rain Rain and fog	Intermittent Continuous		
		68 69 70 <b>-</b> 79	Snow	Slight or moderate Heavy		
		70	Snow or snow and rain mixed Slight snow in flakes	Intermittent		
		72	Moderate snow in flakes	Continuous		
		75 76	Heavy snow in flakes	Intermittent Continuous		

			CARD	CONTENT		SOURCE CONTENT
Col - umns	item	Code	Code Definition	Remarks	Units or Symbols	Reporting and Goding Practices
	l					
20-21	Present	77	Snow and fog		, ww	· .
	Weather	78	Grains of snow	(Frozen drizzle).	_[	
	(Continued)	79		(U.S. definition - sleet)	İ	i .
	l	80-89	raindrops		<u>.</u>	
	ļ		Shower(s) Shower(s)	<del> </del>	4	
		80 81	Rain shower(s)	Slight or moderate.	4	
		82	Main anower(a)	Heavy	4	
		83	Snow shower(s)	Slight or moderate.		<b>.</b>
	ŀ	84	- Silow Bilower (3)	Heavy.	-	· ·
	l	85	Rain and snow shower(s)	Slight or moderate.	-	· ·
		86	1	Heavy	† <i>•</i>	
		87	Shower(s) of snow		1	
	1	••	pellets			
	i	88	Shower(s) of hail or	Slight or moderate.	1	<u> </u>
		89	rain and hail	Heavy	<b>1</b> ·	
		90-99	Thunderstorm			
		90	Thunderstorm			
		91	Rain at time of obser-	Thunderstorm during the last hour but not at time of	1 .	
•		-	vation	observation.		
		92	Snow or snow and rain	1		,
		ł	mixed at time of obser-		•	
			vation	<u> </u>		
	<u>'</u>	93	Thunderstorm, slight	At time of observation.	}	· -
			without hail but with			1
	ł		rain (or snow)	_	1	
	ŀ	94	Thunderstorm, slight	1	l .	
			with hail	4		
	İ	95	95 Thunderstorm, moderate without hail but with	l		
		with rain				
	]		rain (or snow)			
		90	Thunderstorm, moderate			· ·
		- 97	with hail			
		97	without hail, but with	·		
	ļ		rain (or snow)		}	
		98	Thunderstorm, combined			1
		, ,	with duststorm			
	ł .	99	Thunderstorm, heavy	1		
	i	,,,	with hail			
		Blank	Unknown		1	
22-23	Corrected	00-44	1000 - 1044 mb	Coded in tens and units of millibars.	PP	
	Barometer	65-09	965 - 999 mb			
	Reading	Blank	Unknown ·			
24	Visibility	0	Dense fog	Objects not visible at 50 yards.	٧	
		1	Thick fog	Objects not visible at 200 yards.		
	·	_ 2	Fog	Objects not visible at 500 yards.	Į	
		3	Moderate fog	Objects not visible at 1/2 nautical mile.		1
		4	Thin fog	Objects not visible at 1 nautical mile.		1
		5	Poor visibility	Objects not visible at 2 nautical miles.		
		6	Moderate visibility	Objects not visible at 5 nautical miles.		1 .
		7	Good visibility	Objects not visible at 10 nautical miles.		
		8	Very good visibility	Objects not visible at 30 nautical miles.	•	
	İ	9	Excellent visibility	Objects visible at, or more than, 30 nautical miles.		
		Blank	Unknown	<del></del>		

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			CARD	CONTENT	1	SOURCE CONTENT
Col - umns	item	Code	Code Definition	Remarks	, Units or Symbols	Reporting and Coding Practices
25-26	Air Temperature	00-99 X X 01-99 Blank	00° to 99°F or 100° to 199°F -01° to -99°F Unknown	Tens and units of degrees fahrenheit. An I overpunch in column 25 indicates temperatures below O°F while temperatures above 100°F are nunched by dropping the hundreds digit.	TfTf	
27-28	Sea Fater Temperature	00-99 Blank	00° to 99°F Unknown	Tens and units of degrees fahrenheit.	T <sub>w</sub> T <sub>w</sub>	ř.
29-30	Wet Bulb Temperature	00-99 X X 01-99	00° to 99°F -C1° to -99°F Unknown	Tens and units of degrees fahrenheit.	Ъть	•
31	State of the Sea	0 1 2 3 4 5 6 7 7 8 9 Blank	Calm Smooth Slight Moderate Rough Very rough High Very high Precipitous Confused Unknown	Height of wave, crest to trough:  O feet.  Less than 1 foot.  1 to 3 feet.  3 to 5 feet.  5 to 8 feet.  12 to 20 feet.  20 to 40 feet.  Over 40 feet.	S	
32	Form of Low Cloud	0 1 2 . 3 4	No lower clouds Cumulus of fine weather Cumulus, heavy and swelling, without anvil top Cumulonimbus Stratocumulus formed by the flattening of cumulus clouds Layer of stratus or stratocumulus Low broken up clouds of bad weather Cumulus of fine weather and stratocumulus Heavy or swelling cumulus or cumulonimbus, and stratocumulus Heavy or swelling		C <sub>L</sub>	
	Form of Middle Cloud	0 1	cumulus (or cumulo- nimbus) and low ragged clouds of bad weather Unknown No middle clouds Typical Altostratus, thin Typical altostratus, thick (or nimbostratus) Altocumulus or high stratocumulus, sheet at one level only		<b>С</b> <sub>М</sub>	

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			CARD	CONTENT		SOURCE CONTENT
Col ~ umns	item	Code	Code Definition	Remarks	Units or Symbols	Reporting and Coding Practices
	Form of Middle Cloud (Continued)	4	Altocumulus in small isolated patches; in- dividual clouds often show signs of evaporat-		. C <sub>V</sub>	:
		. 5	ion and are more or less lenticular in shape Altocumulus arranged in more or less parallel bands, or an ordered	· · · · · · · · · · · · · · · · · · ·		· ;
		6	layer advancing over the sky Altocumulus formed by spreading out of the			
		7	tops of cumulus  Altocumulus associated with altostratus or altostratus with a partially altocumulus character	•		
		8	Altocumulus castellatus or scattered cumuli- form tufts Altocumulus in several	·		
		!	sheets at different levels, generally associated with thick fibrous veils of clouds and a chaotic appear-			
		Blank	ance of the sky Unknown			
34	Form of High Cloud	0	No high clouds Cirrus, delicate, not increasing, scattered and isolated masses		C <sub>H</sub>	
		2	Cirrus, delicate, not increasing, abundant but not forming a continuous layer			
•		3	Cirrus or anvil clouds, usually dense Cirrus, increasing, generally in the form		·	
		-	of hooks, ending in a point or in a small tuft			
		5	Cirrus (often in polar bands) or cirrostratus advancing over the sky but not more than 45° above the horizon			
		6	Cirrus (often in polar bands) advancing over the sky and more than 45° above the horizon		-	
						<u> </u>

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			CARD	CONTENT		SOURCE CONTENT
Col - umns	item	Code	Gode Definition	Remarks	Units or Symbols	Reporting and Coding Practices
34	Form of High Cloud	7	Veil of cirrostratus covering the whole sky	·	C <sub>H</sub>	• •
	(Continued)	3	Cirrostratus not in- creasing and not cover- ing the whole sky Cirrocurulus predominat-	•		
		9 Blank	ing, associated with a small quantity of cirrus	· ·		
35	Total	OTHIK	No clouds .		N	
22	Amount of	1	Less than 1/10			
	all Clouds	2	1/10			
	221 01000	$\frac{3}{3}$	2/10 to 3/10 4/10 to 6/10 7/10 to 8/10			
		4	4/10 to 6/10			1
	i	5	7/10 to 8/10			
		6	19/10		ļ ·	
		7	More than 9/10 but with openings 10/10 sky completely		, ·	
	]	8	10/10 sky completely			
		9	Sky obscured by fog, duststorm, or other			
			phenomenon	henome non		
		Blank	Unknown		T <sub>d</sub>	
36	Temperature		> 9°F	Air temperature same as or higher than sea temperature.	T <sub>d</sub>	1 .
	Difference	1	6° - 9°F		l	1 .
	(Air and	2	30 - 60F	<u></u>		
	Water)	3	10 - 30F No difference or < 10F	-		·
		14	Less than 1°F	Air temperature lower than sea temperature.	'	
		6	10 - 30F	All temperature force than sea temperature		
		7	3° - 6°F		i	
	i	<del>'8</del>	60 - 90F	1		· · ·
		9	More than 9°F	1		
		Blank	Unknown			
37	Character	0	No swell		K	
-	of Swell	1	Low swell	Short or average length		
		2		Long		•
		3	Moderate swell	Short	-	
		4	1	average length	1	1
		5	100	Long		
		7	Heavy swell	Average length	1	
		- 9	┪	Long	1	
	1	9	Confused swell	Song	1	
	1	Blank	Unknown			
38	Direction	0	No sea or swell		D <sub>K</sub>	
•	of Swell	1	From Northeast		]	
	1	2	From East		1	
	1	3	From Southeast		4	
		4	From South		1 .	
		5	From Southwest		1	
		6	From West		1	·
		$\frac{7}{9}$	From Northwest		1 ·	·· ·
	1	8	From North		1	

			CARD	CONTENT		SOURCE CONTENT				
Col - umns	item	Code	Code Definition	Remarks °	Units or Symbols	Reporting and Coding Practices				
38	Direction of Swell	9	All directions or no definite direction		D <sub>k</sub>					
39	(Continued)	Blank O	Unknown Fair	Clear or slightly clouded	W					
•	Weather	2	Variable sky Mainly overcast							
		3	Sandstorm or duststorm or storm of drifting							
		4	Fog or thick dust haze	Visibility less than 1100 yards.	_					
		1	Drizzle Rain		-					
		7	Snow or sleet							
		8	Showers		_					
		9 Blank	Thunderstorm Unknown	<del> </del>	┥					
40	Amount of	0	No clouds		N <sub>h</sub>					
	Low Cloud	1	Less than 1/10							
		2	1/10 2/10 to 3/10	· · · · · · · · · · · · · · · · · · ·	<b>-</b> -					
		- ;	2/10 to 5/10							
		5	7/10 to 8/10							
		6	9/10							
		7	More than 9/10 but		1					
		8	with openings 10/10 sky completely covered with clouds		<b>-</b>					
		9	Sky obscured by fog, duststorm, or other							
			phenomenon							
41	Direction	Blank O	Unknown Ship hove to		d <sub>s</sub>	Direction in which ship is moving.				
41	of Ship	1	Northeast		~s	ations of the second se				
		2	East			·				
		3	Southeast		_					
		4	South Southwest	<u> </u>	<b>- </b>					
		6	West							
		7	Northwest		<b>_</b>					
		8	North		-					
		9	All directions or no definite direction			•				
		Blank	Unknown							
42	Speed of	0	Ship stopped		V <sub>s</sub>					
	Ship	1	1 - 3 knots	<u> </u>						
		2 3	7 - 9 knots		-					
		4	10 - 12 knots			·.				
		5	13 - 15 knots							
		6	16 - 18 knots 19 - 21 knots							
		<del>'</del>	22 - 24 knots	<del></del>	<b>-  </b> '	· ·				
	j	9_	Over 24 knots							
	1	Blank	Unknown							
					.]	1				

i	·		CARD	CONTENT		SOURCE CONTENT
Gol – umns	item	Code	Code Definition	Remarks	Units or Symbols	Reporting and Coding Practices
	Character- istic of Pressure Change	0	Rising, then falling Rising, then steady; or rising, then rising more slowly	Barometer now higher than or the same as 3 hours ago.	a	
		2 3 4	Unsteady Steady or rising Falling or steady, then rising; or rising, then rising more quickly		·	
		5	Falling then rising Falling, then steady; or falling then falling more slowly	Barometer now lower than 3 hours ago.		
		9	Unsteady Falling Steady or rising, then falling; or falling, then falling more quickly			
44-45	Barometer	Blank 00-99	Unknown 0 mb to 19.8 mb change	Amount of rise or fall during the 3 hours preceding	pp	Reported and punched in fifths of millibars.
	Change	X X 00-99 Blank	20.0 mb to 39.8 mb change Unknown	the observation in fifths of millibars.  An X overpunch in column 45 indicates that 20.0 mb. is to be added to the actual amount of change punched.		
46	F > 9		Omitted	Beaufort forces greater than 9 are shown in column 19.		
	Ship's Barometer Number	1000- 9999	was punched when available	Of no meteorological advantage but only of use in transcribing data from form 1210A to punched cards.		·
	Barometer Comparison Center	Blank 1 2 3 Blank	Unknown New York New Orleans San Francisco	For reference only. The number of the station which issued the ship's barometer number.		
52-80		Blank Not used	Unknown			· · · · · · · · · · · · · · · · · · ·
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